

CLAIMS:

1. A transreflective liquid crystal display device with a reflective mode using external light and a transmissive mode using a light source comprising:
 - 5 a light source used in the transmissive mode;
 - a liquid crystal panel, arranged over said light source, for operating as display element; and
 - a diffusing optical element, arranged over said liquid crystal panel, for having a scattering state in said reflective mode and having a non-scattering state in said
- 10 transmissive mode.
2. The device according to claim 1, further comprising switch controlling means for controlling to supply said diffusing optical element with power such that said diffusing optical element has a scattering state in said reflective mode and has a non-scattering state in said transmissive mode.
- 15 3. The device according to claim 1 or 2, wherein said liquid crystal panel has a pair of glass substrates sandwiching a liquid crystal layer and polarizer arranged on each glass substrate, wherein said diffusing optical element is arranged between one glass substrate and said polarizer arranged on said one glass substrate.
4. The device according to any one of claim 1 to 3, wherein said diffusing
- 20 optical element has a polymer dispersed liquid crystal or a polymer network liquid crystal.